

# PR-Xv

3A9349C

## Variable Ratio Metering System

EN

***For accurate metering, mixing, and dispensing of two-component materials. For professional use only.***

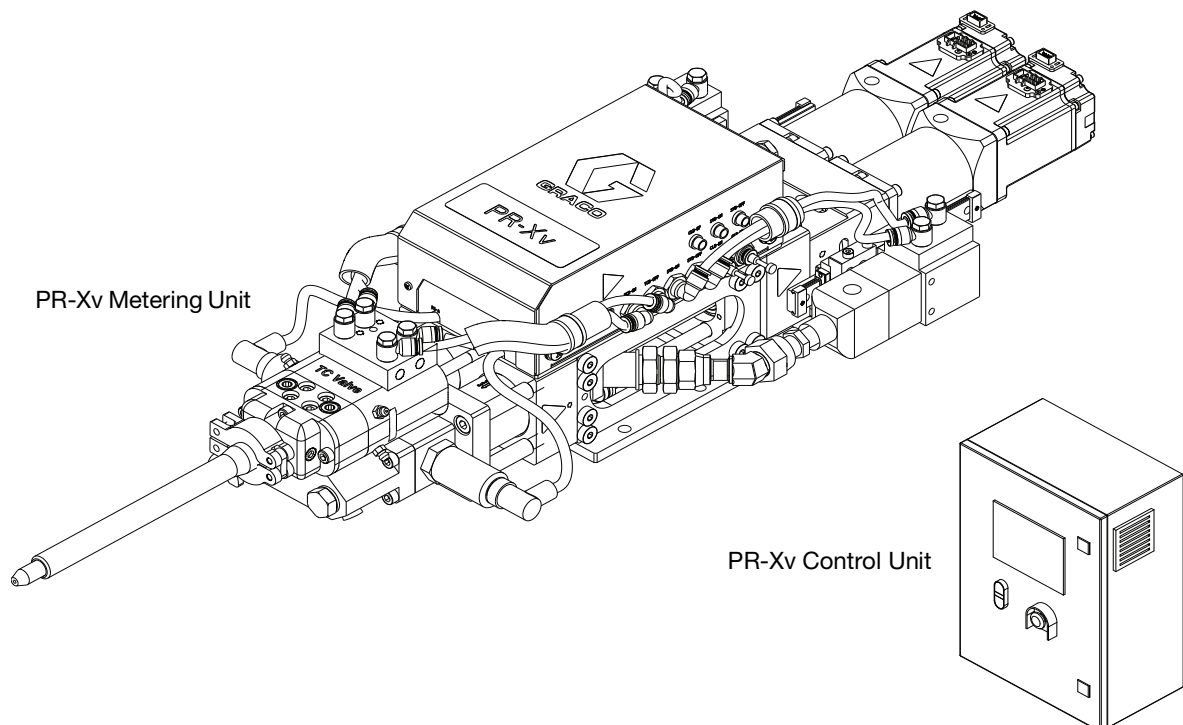
**Not approved for use in explosive atmospheres or hazardous (classified) locations.**

1200 psi (8.3 MPa, 83 bar) Maximum Working Pressure  
100 psi (0.7 MPa, 7 bar) Maximum Air Inlet Pressure.



### Important Safety Instructions

Read all warnings and instructions in this manual, your instruction manual, and your dispensing valve manuals before using the equipment. Save these instructions.





# Contents

<b>Related Manuals</b> .....	<b>2</b>
<b>Models</b> .....	<b>3</b>
<b>Safety Symbols</b> .....	<b>4</b>
<b>General Warnings</b> .....	<b>5</b>
Keep Components A and B Separate .....	7
Changing Materials .....	7
<b>Recycling and Disposal</b> .....	<b>8</b>
End of Product Life .....	8
<b>Repair</b> .....	<b>9</b>
Prepare for Piston/Cylinder Replacement Kit Installation .....	9
Disassemble Cylinder .....	10
Install Cylinder .....	11
Prepare for Operation .....	12
<b>Parts</b> .....	<b>13</b>
Overview .....	13
System .....	14
Assembly .....	16
Base .....	18
Metering Module .....	20
Power Transmission Module .....	24
Supply Pump Module .....	26
Junction Box .....	28
Control Unit .....	30
Dispense Valve Module .....	32
<b>Kits and Accessories</b> .....	<b>34</b>
Remote Kits .....	34
Static Mixer Package .....	35
Adapter .....	36
O-ring Kits .....	36
SD Card .....	36
Cables .....	36
<b>Technical Specifications</b> .....	<b>37</b>
<b>California Proposition 65</b> .....	<b>37</b>
<b>Graco Standard Warranty</b> .....	<b>38</b>

## Related Manuals

Manuals in English	Description
3A9328	PR-Xv Instruction Manual
308876	1K Ultra-Lite™ Instructions and Parts List Manual
3A9283	TC Dispense Valve

# Models

Part	Description	Includes:				Approvals
		PR-Xv Metering Unit	PR-Xv Control Unit	Static Mixer Package	Direct Connection <sup>(3)</sup>	
25S181	PR-Xv System, 100 cc, I/O, SST <sup>(1)</sup>	✓	✓	✓	✓	
25S182	PR-Xv System, 100 cc, I/O, CER <sup>(2)</sup>	✓	✓	✓	✓	
25S197	PR-Xv System, 75 cc, I/O, SST <sup>(1)</sup>	✓	✓	✓	✓	
25S198	PR-Xv System, 75 cc, I/O, CER <sup>(2)</sup>	✓	✓	✓	✓	
2002052	PR-Xv System, 75 cc, I/O, SST <sup>(1)</sup> , 20 m cable	✓	✓	✓	✓	
2002053	PR-Xv System, 75 cc, I/O, CER <sup>(2)</sup> , 20 m cable	✓	✓	✓	✓	
2002594	PR-Xv System, 100 cc, I/O, SST <sup>(1)</sup> , EU	✓	✓	✓	✓	
2002595	PR-Xv System, 100 cc, I/O, CER <sup>(2)</sup> , EU	✓	✓	✓	✓	
2002596	PR-Xv System, 75 cc, I/O, SST <sup>(1)</sup> , EU	✓	✓	✓	✓	
2002597	PR-Xv System, 75 cc, I/O, CER <sup>(2)</sup> , EU	✓	✓	✓	✓	

<sup>(1)</sup> SST: Stainless steel material

<sup>(2)</sup> CER: Ceramic material

<sup>(3)</sup> Any PR-Xv system can be converted to remote mode by using remote kits. See **Remote Kits**, page 34 and order remote kits.









**NOTE:** The ratio range of PR-Xv 100cc metering system (1:1 volume ratio system) is from 1:1 to 5:1. The ratio range of PR-Xv 75cc metering system (2:1 volume ratio system) is from 2:1 to 10:1.

**NOTE:** Any PR-Xv system can be converted to Profinet communication mode by ordering SD card 2000359 and performing **Software Update** as outlined in your PR-Xv Instruction Manual. See **Related Manuals**, page 2.

# Safety Symbols

The following safety symbols appear throughout this manual and on warning labels. Read the table below to understand what each symbol means.

Symbol	Meaning
	Electric Shock Hazard
	Equipment Misuse Hazard
	Fire and Explosion Hazard
	Moving Parts Hazard
	Pressurized Equipment Hazard
	Skin Injection Hazard
	Skin Injection Hazard
	Splash Hazard
	Toxic Fluid or Fumes Hazard

Symbol	Meaning
	Do Not Place Hands or Other Body Parts Near Fluid Outlet
	Do Not Stop Leaks with Hand, Body, Glove or Rag
	Eliminate Ignition Sources
	Follow Pressure Relief Procedure
	Ground Equipment
	Read Manual
	Ventilate Work Area
	Wear Personal Protective Equipment












### Safety Alert Symbol







This symbol indicates: Attention! Become Alert! Look for this symbol throughout the manual to indicate important safety messages.





# General Warnings

The following warnings apply throughout this manual. Read, understand, and follow the warnings before using this equipment. Failure to follow these warnings can result in serious injury.




 <b>WARNING</b>	
 	<p><b>ELECTRIC SHOCK HAZARD</b></p> <p>This equipment must be grounded. Improper grounding, setup, or usage of the system can cause electric shock.</p> <ul style="list-style-type: none"> <li>• Turn off and disconnect all power before disconnecting any cables and before servicing or installing equipment.</li> <li>• Connect only to grounded power source.</li> <li>• All electrical wiring must be done by a qualified electrician and comply with all local codes and regulations.</li> </ul>
    	<p><b>SKIN INJECTION HAZARD</b></p> <p>High-pressure fluid from dispensing device, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. <b>Get immediate surgical treatment.</b></p> <ul style="list-style-type: none"> <li>• Do not point dispensing device at anyone or at any part of the body.</li> <li>• Do not put your hand over the fluid outlet.</li> <li>• Do not stop or deflect leaks with your hand, body, glove, or rag.</li> <li>• Follow the <b>Pressure Relief Procedure</b> in your PR-Xv Instruction Manual when you stop dispensing and before cleaning, checking, or servicing equipment.</li> <li>• Tighten all fluid connections before operating the equipment.</li> <li>• Check hoses and couplings daily. Replace worn or damaged parts immediately.</li> </ul>
	<p><b>TOXIC FLUID OR FUMES HAZARD</b></p> <p>Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.</p> <ul style="list-style-type: none"> <li>• Read Safety Data Sheets (SDSs) to know the specific hazards of the fluids you are using.</li> <li>• Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.</li> </ul>

# **WARNING**

   	<p><b>FIRE AND EXPLOSION HAZARD</b></p> <p>Flammable fumes, such as solvent and paint fumes, in <b>work area</b> can ignite or explode. Paint or solvent flowing through the equipment can cause static sparking. To help prevent fire and explosion:</p> <ul style="list-style-type: none"> <li>• Use equipment only in well-ventilated area.</li> <li>• Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static sparking).</li> <li>• Ground all equipment in the work area. See <b>Grounding</b> instructions in your PR-Xv Instruction Manual.</li> <li>• Never spray or flush solvent at high pressure.</li> <li>• Keep work area free of debris, including solvent, rags and gasoline.</li> <li>• Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present.</li> <li>• Use only grounded hoses.</li> <li>• Hold gun firmly to side of grounded pail when triggering into pail. Do not use pail liners unless they are anti-static or conductive.</li> <li>• <b>Stop operation immediately</b> if static sparking occurs or you feel a shock. Do not use equipment until you identify and correct the problem.</li> <li>• Keep a working fire extinguisher in the work area.</li> </ul>
 	<p><b>EQUIPMENT MISUSE HAZARD</b></p> <p>Misuse can cause death or serious injury.</p> <ul style="list-style-type: none"> <li>• Do not operate the unit when fatigued or under the influence of drugs or alcohol.</li> <li>• Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See <b>Technical Specifications</b> in all equipment manuals.</li> <li>• Use fluids and solvents that are compatible with equipment wetted parts. See <b>Technical Specifications</b> in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request Safety Data Sheets (SDSs) from distributor or retailer.</li> <li>• Turn off all equipment and follow the <b>Pressure Relief Procedure</b> in your PR-Xv Instruction Manual when equipment is not in use.</li> <li>• Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.</li> <li>• Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards.</li> <li>• Make sure all equipment is rated and approved for the environment in which you are using it.</li> <li>• Use equipment only for its intended purpose. Call your distributor for information.</li> <li>• Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.</li> <li>• Do not kink or over bend hoses or use hoses to pull equipment.</li> <li>• Keep children and animals away from work area.</li> <li>• Comply with all applicable safety regulations.</li> </ul>

 <h1 style="margin: 0;">WARNING</h1>	
 	<p><b>MOVING PARTS HAZARD</b>                      Moving parts can pinch, cut or amputate fingers and other body parts.</p> <ul style="list-style-type: none"> <li>Keep clear of moving parts.</li> <li>Do not operate equipment with protective guards or covers removed.</li> <li>Equipment can start without warning. Before checking, moving, or servicing equipment, follow the <b>Pressure Relief Procedure</b> in your PR-Xv Instruction Manual and disconnect all power sources.</li> </ul>
	<p><b>PERSONAL PROTECTIVE EQUIPMENT</b>                      Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. Protective equipment includes but is not limited to:</p> <ul style="list-style-type: none"> <li>Protective eyewear, and hearing protection.</li> <li>Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.</li> </ul>

## Keep Components A and B Separate

				
<p>Cross-contamination can result in cured material in fluid lines which could cause serious injury or damage equipment. To prevent cross-contamination:</p> <ul style="list-style-type: none"> <li>Never interchange component A and component B wetted parts.</li> <li>Never use solvent on one side if it has been contaminated from the other side.</li> </ul>				


## Changing Materials

<i>NOTICE</i>
<p>Changing the material types used in your equipment requires special attention to avoid equipment damage and downtime.</p> <ul style="list-style-type: none"> <li>When changing materials, flush the equipment multiple times to ensure it is thoroughly clean.</li> <li>Always clean the fluid inlet strainers after flushing.</li> <li>Check with your material manufacturer for chemical compatibility.</li> <li>When changing between epoxies and urethanes or polyureas, disassemble and clean all fluid components and change hoses. Epoxies often have amines on the B (hardener) side. Polyureas often have amines on the B (resin) side.</li> </ul>

# Recycling and Disposal







## End of Product Life

At the end of the product's useful life, dismantle and recycle it in a responsible manner.

- Perform the **Pressure Relief Procedure** in your PR-Xv Instruction Manual. See **Related Manuals**, page 2.
- Drain and dispose of fluids according to applicable regulations. Refer to the material manufacturer's Safety Data Sheet.
- Remove motors, circuit boards, LCDs (liquid crystal displays), and other electronic components. Recycle according to applicable regulations.
- Do not dispose of electronic components with household or commercial waste. 
- Deliver remaining product to a recycling facility.



# Repair


This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection, splashing fluid and moving parts, follow **Pressure Relief Procedure** in your PR-Xv Instruction Manual when you stop operating and before cleaning, checking, or servicing the equipment.

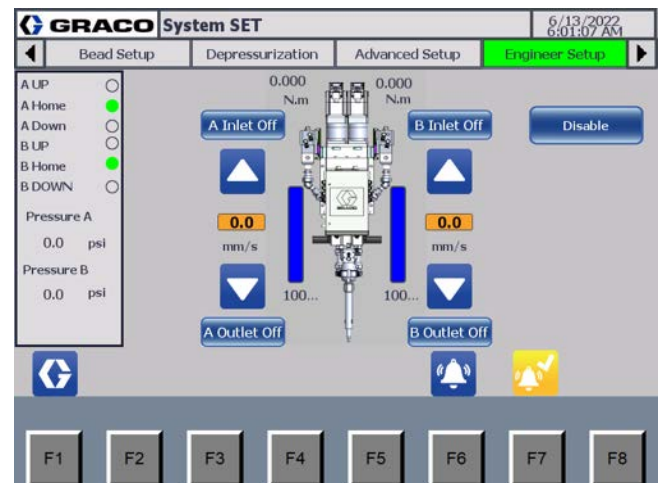
Wear appropriate protective equipment to help prevent serious injury from toxic fluids or fumes.

To avoid injury from fire, explosion, or electric shock, all electrical wiring must be done by a qualified electrician and comply with all local codes and regulations.

## Prepare for Piston/Cylinder Replacement Kit Installation

**NOTE:** Graco suggests using TSL™ only in repair procedures. All procedures should be performed by an appropriate professional.

1. Perform the step 2 to step 4 of **Pressure Relief Procedure** in your PR-Xv Instruction Manual. See **Related Manuals**, page 2.
2. Turn off the air supply when the fluid pressure drops to ZERO.
3. Go to the Advanced Screen of the PR-Xv Control Unit (G, page 7 in your PR-Xv Instruction Manual). Set the move speed at about 0.2 cc/s, then jog select  for part A and B until lights of A Down and B Down are activated.



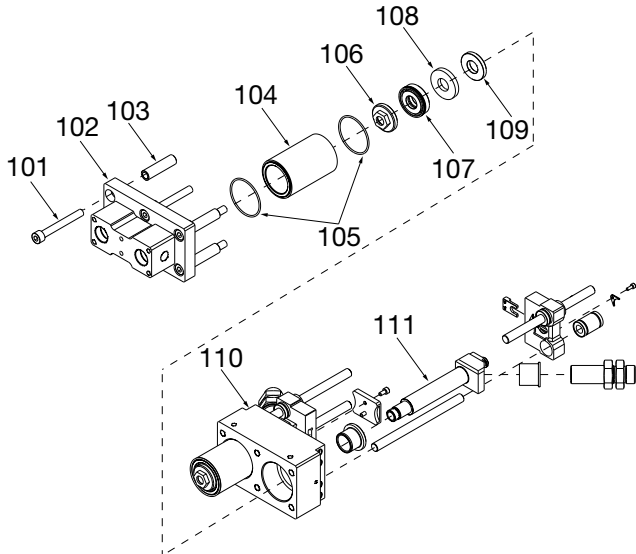
**FIG. 1 Advanced Screen**

**NOTE:** To open the Advanced mode, the operator must enter the password **1492**.

4. Turn off the system power.
5. Disconnect all cables and tubes from Junction Box Assembly (AC, page 8 in your PR-Xv Instruction Manual).
6. Open the top cover of the Junction Box (AC, page 8 in your PR-Xv Instruction Manual) and loosen the four fix screws in the cylinder housing (110, page 8). Next, take off the Junction Box Assembly (AC, page 8 in your PR-Xv Instruction Manual).

## Disassemble Cylinder

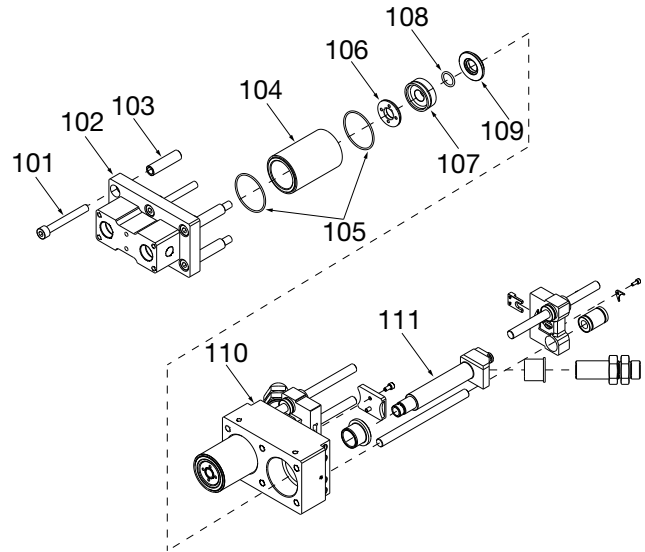
### Series A



**FIG. 2 Disassemble Cylinder, Series A**

1. Remove the Dispense Valve (AB, page 8 in your PR-Xv Instruction Manual).
2. Remove the six screws (101).
3. Remove the support block (102) and the sleeves (103).
4. Remove the cylinder (104) and O-rings (105) from the cylinder housing (110).
5. Remove the piston nut (106) from the rod (111).
6. Remove the piston (107) from the rod (111).
7. Remove the washer (108) from the rod (111).
8. Remove the plate (109) from the rod (111).
9. Clean all parts that have been removed.
10. Disassemble and clean parts for both sides.

### Series B



**FIG. 3 Disassemble Cylinder, Series B**

1. Remove the Dispense Valve (AB, page 8 in your PR-Xv Instruction Manual).
2. Remove the six screws (101).
3. Remove the support block (102) and the sleeves (103).
4. Remove the cylinder (104) and O-rings (105) from the cylinder housing (110).
5. Remove the front support plate (106) from the rod (111).
6. Remove the piston (107) from the rod (111).
7. Remove the O-ring (108) and the back support plate (109) from the rod (111).
8. Clean all parts that have been removed.
9. Disassemble and clean parts for both sides.

## Install Cylinder

### Series A

1. Install the plate (109) to the rod (111).
2. Install the new washer (108) to the rod (111) with TSL oil.
3. Install the new piston (107) in the correct direction.
4. Install the piston nut (106) and tighten the piston nut with correct torque.
5. Install one new O-ring (105) with TSL oil into the grooves of cylinder housing (110).
6. Carefully slide the end of the cylinder (104) into the cylinder housing (110) in the correct direction. Ensure the cylinder doesn't damage the sides of the piston as the cylinder is inserted.
7. Insert the other lubricated O-rings (105) into the grooves of the cylinder (104).
8. Install the support block (102).
9. Secure cylinder in place with the four sleeves (103). Diagonally tighten the screws (101) by slowly and progressively increasing torque until the screws are securely housed.
10. Install other parts.

**NOTE:** Not all parts need to be replaced with new ones. The operator may replace the parts per actual situation.

### Series B

1. Install the back support plate (109) and the new O-ring with TSL oil to the rod (111).
2. Install the new piston (107) in the correct direction.
3. Install the front support plate (106) and tighten the piston nut with correct torque.
4. Install one new O-ring (105) with TSL oil into the grooves of cylinder housing (110).
5. Carefully slide the end of the cylinder (104) into the cylinder housing (110) in the correct direction. Ensure the cylinder doesn't damage the sides of the piston as the cylinder is inserted.
6. Insert the other lubricated O-rings (105) into the grooves of the cylinder (104).
7. Install the support block (102).
8. Secure cylinder in place with the four sleeves (103). Diagonally tighten the screws (101) by slowly and progressively increasing torque until the screws are securely housed.
9. Install other parts, and for both sides.

**NOTE:** Not all parts need to be replaced with new ones. The operator may replace the parts per actual situation.

## Prepare for Operation

1. Pressurize Supply Pump Systems A (E, page 7 in your PR-Xv Instruction Manual) and B (F, page 7 in your PR-Xv Instruction Manual) connected to the PR-Xv Inlet Valve (AE, page 8 in your PR-Xv Instruction Manual). Perform Prime the System in your PR-Xv Instruction Manual. See **Related Manuals**, page 2.
2. Perform the Ratio Check Procedure in your PR-Xv Instruction Manual. See **Related Manuals**, page 2.
3. Dispense several full stroke shots until the PR-Xv Metering Unit (J, page 7 in your PR-Xv Instruction Manual) is free of air and there is no leakage at the dispense outlet after shutoff.

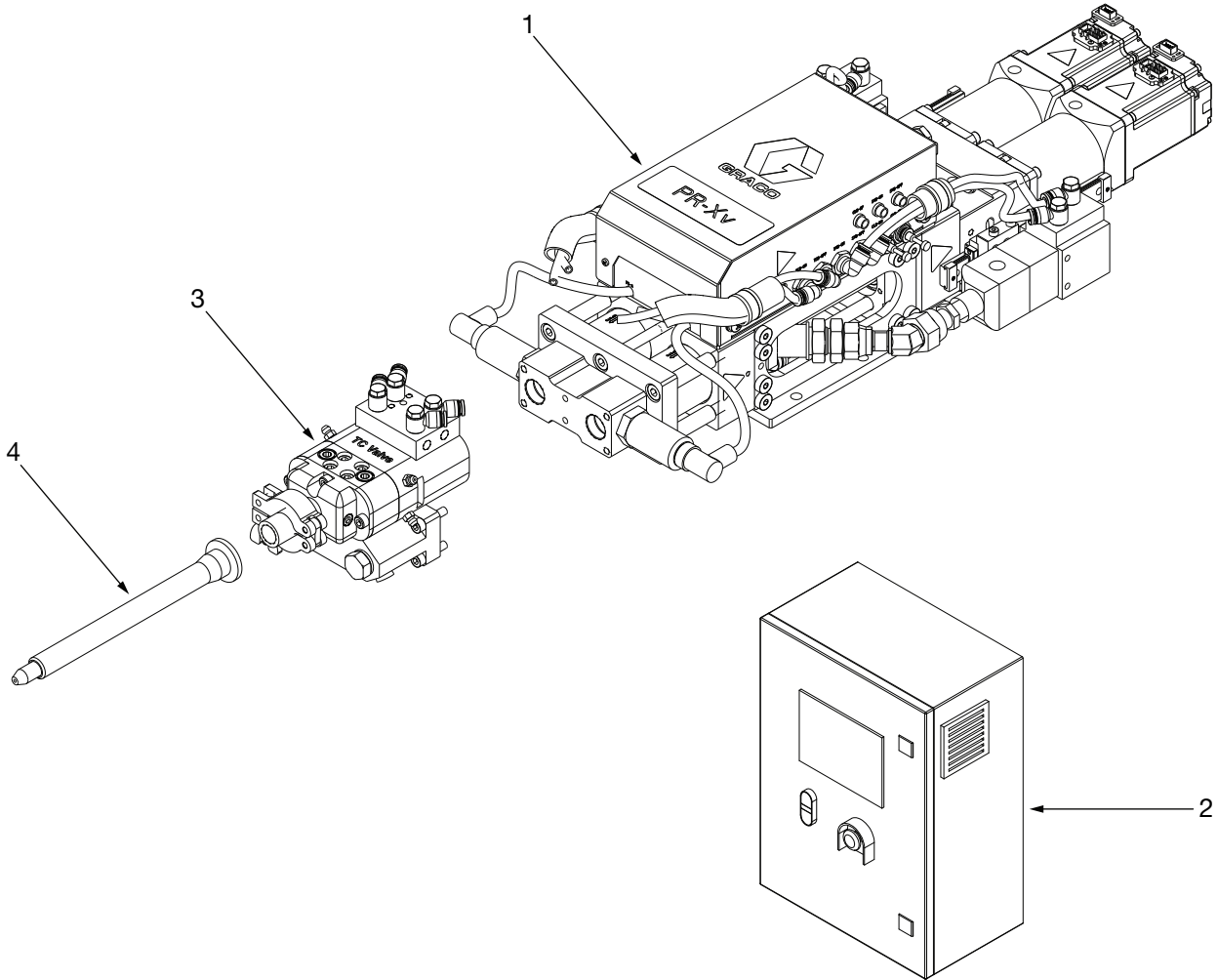
# Parts

## Overview

<b>Parts Description</b>	<b>Page</b>
System	14
Assembly	16
Base	18
Metering Module	20
Power Transmission Module	24
Supply Pump Module	26
Junction Box	28
Control Unit	30
Dispense Valve Module	32
Static Mixer Package	35

# System

25S181, 25S182, 25S197, 25S198, 2002594, 2002595, 2002596, and 2002597

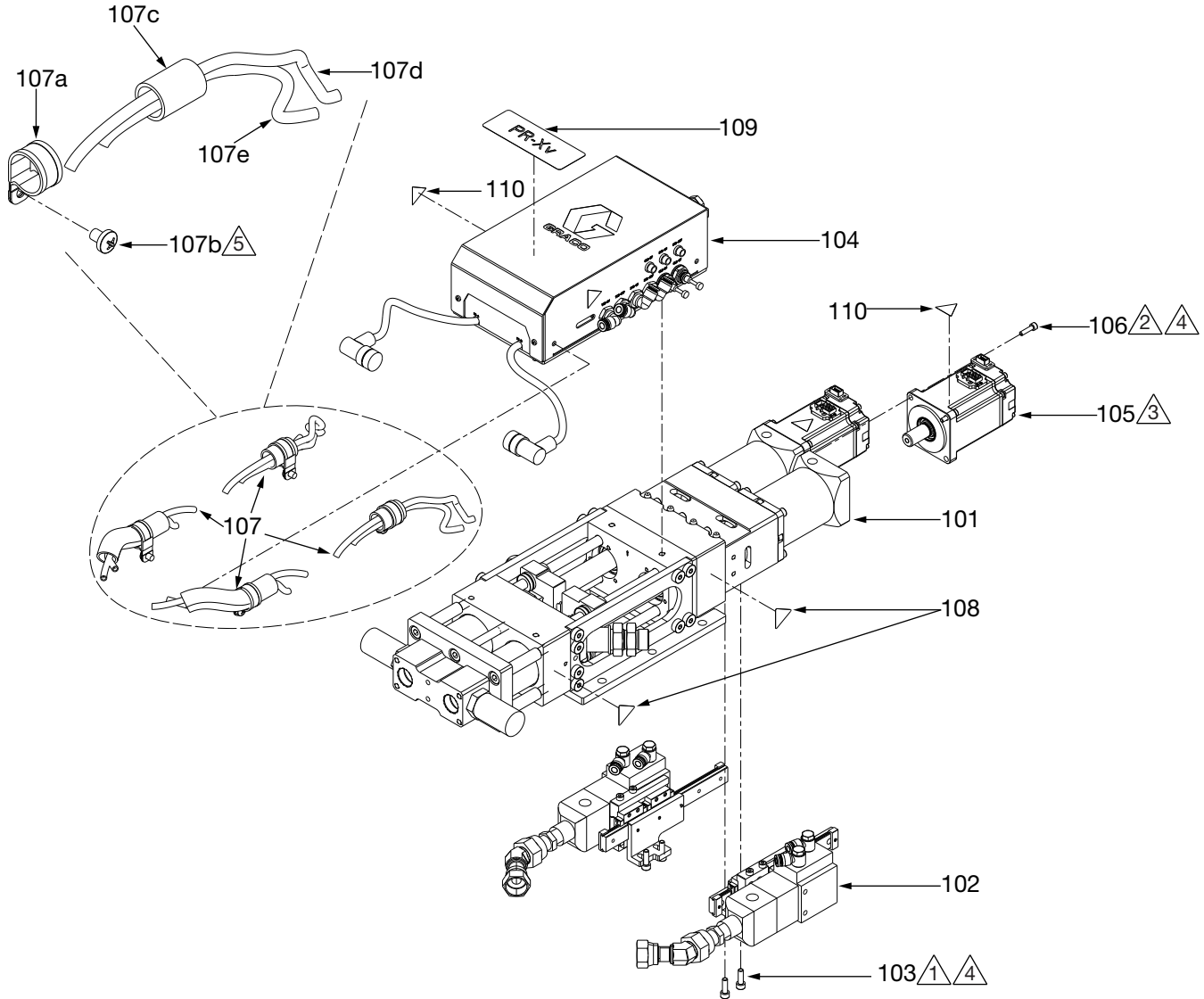


## System Parts List

Ref.	Part	Description	Qty.							
			25S181	25S182	25S197	25S198	2002594	2002595	2002596	2002597
1	2002022	ASSEMBLY, PR-Xv, 100, SST; See <b>Assembly</b> , page 16	1							
	2002023	ASSEMBLY, PR-Xv, 100, CER; See <b>Assembly</b> , page 16		1						
	2002024	ASSEMBLY, PR-Xv, 75, SST; See <b>Assembly</b> , page 16			1					
	2002025	ASSEMBLY, PR-Xv, 75, CER; See <b>Assembly</b> , page 16				1				
	2002501	ASSEMBLY, PR-Xv, 100, SST, EU; See <b>Assembly</b> , page 16					1			
	2002502	ASSEMBLY, PR-Xv, 100, CER, EU; See <b>Assembly</b> , page 16						1		
	2002503	ASSEMBLY, PR-Xv, 75, SST, EU; See <b>Assembly</b> , page 16							1	
	2002504	ASSEMBLY, PR-Xv, 75, CER, EU; See <b>Assembly</b> , page 16								1
2	2002077	Control Unit; See <b>Control Unit</b> , page 30	1	1	1	1				
	2002500	Control Unit, EU; See <b>Control Unit</b> , page 30					1	1	1	1
3	25S194	TC MODULE; See <b>Dispense Valve Module</b> , page 32	1				1			
	25S205	TC MODULE, HW; See <b>Dispense Valve Module</b> , page 32		1				1		
	25S206	MODULE, TC valve, 10:1; See <b>Dispense Valve Module</b> , page 32			1				1	
	25S207	MODULE, TC valve, 10:1 HW; See <b>Dispense Valve Module</b> , page 32				1				1
4	2000923	KIT, clamp, shroud, 1:10; For more choices, see <b>Static Mixer Package</b> , page 35	1	1	1	1	1	1	1	1

# Assembly

2002022, 2002023, 2002024, 2002025, 2002501, 2002502, 2002503, and 2002504



- Torque to 1.25-1.7 ft-lb (1.7-2.3 N•m).
- Torque to 0.37-0.74 ft-lb (0.5-1.0 N•m).
- Installation direction as show.
- Apply sealant, Anaerobic, blue.
- Torque to 2.21-2.95 ft-lb (3.0-4.0 N•m).



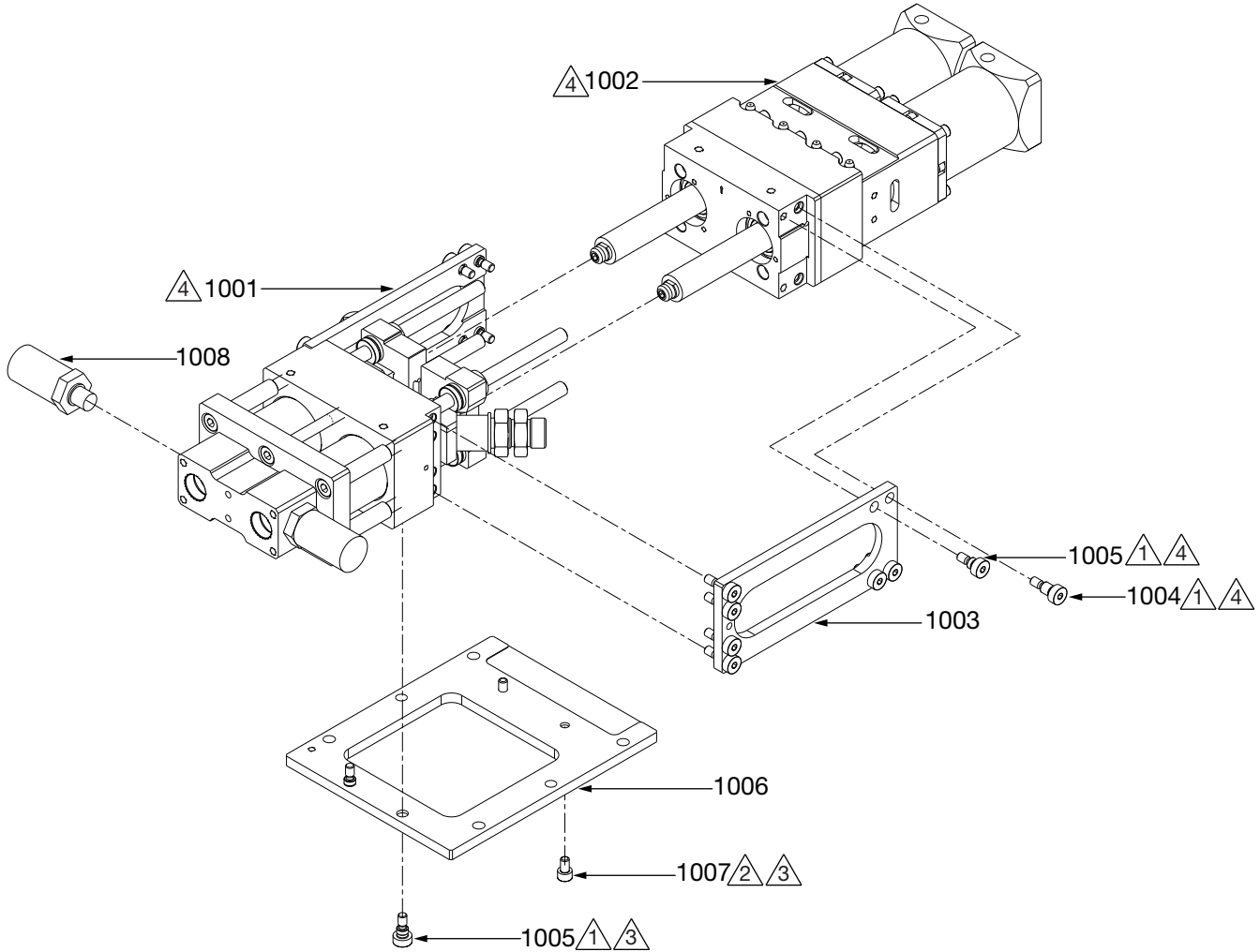
## Assembly Parts List

Ref.	Part	Description	Qty.							
			25S181	25S182	25S197	25S198	2002594	2002595	2002596	2002597
101	25S183	BASE, PR-Xv, 100, SST; See <b>Base</b> , page 18	1				1			
	25S184	BASE, PR-Xv, 100, CER; See <b>Base</b> , page 18		1				1		
	25S199	BASE, PR-Xv, 75, SST; See <b>Base</b> , page 18			1				1	
	25S200	BASE, PR-Xv, 75, CER; See <b>Base</b> , page 18				1				1
102	25S188	MODULE, supply, pump, PR-Xv, SST; See <b>Supply Pump Module</b> , page 26	1		1		1		1	
	25S203	MODULE, supply, pump, PR-Xv, HW; See <b>Supply Pump Module</b> , page 26		1		1		1		1
103	----	SCREW, M5 x 0.8-16, socket head, SST	4	4	4	4	4	4	4	4
104	25S192	JUNCTION BOX, PR-Xv; See <b>Junction Box</b> , page 28	1	1	1	1	1	1	1	1
105	18D881	MOTOR, servo, 220V, 400W, INO	2	2	2	2				
	2002456	MOTOR, servo					2	2	2	2
106	----	SCREW, M4 x 0.7-16, socket head, SST	8	8	8	8	8	8	8	8
107	25S196	KIT, tube, PU, PR-Xv	1	1	1	1	1	1	1	1
107a	18E327	FIXTURE, R shape, D21.2	4	4	4	4	4	4	4	4
107b	18E328	SCREW, M6 x 1.0-8, pan head, SST	4	4	4	4	4	4	4	4
107c	18E329	PIPE, corrugated, 21.2-70	2	2	2	2	2	2	2	2
107d	----	TUBE, 6 MM OD x 4 MM ID, PU, Black	3.5 ft	3.5 ft	3.5 ft	3.5 ft	3.5 ft	3.5 ft	3.5 ft	3.5 ft
107e	----	TUBE, 6 MM OD x 4 MM ID, PU, blue	3.5 ft	3.5 ft	3.5 ft	3.5 ft	3.5 ft	3.5 ft	3.5 ft	3.5 ft
108▲	15H108	LABEL, safety, warning, pinch	4	4	4	4	4	4	4	4
109	2000342	IDENTIFICATION, label	1	1	1	1	1	1	1	1
110▲	189930	LABEL, caution	4	4	4	4	4	4	4	4

▲ Replacement safety labels, tags, and cards are available at no cost.

# Base

25S183, 25S184, 25S199, and 25S200



- 1 Torque to 5.16-6.64 ft-lb (7.0-9.0 N•m).
- 2 Torque to 2.21-2.95 ft-lb (3.0-4.0 N•m).
- 3 Apply sealant, Anaerobic, blue.
- 4 Apply lubricant, synthetic, grease, 3 oz.

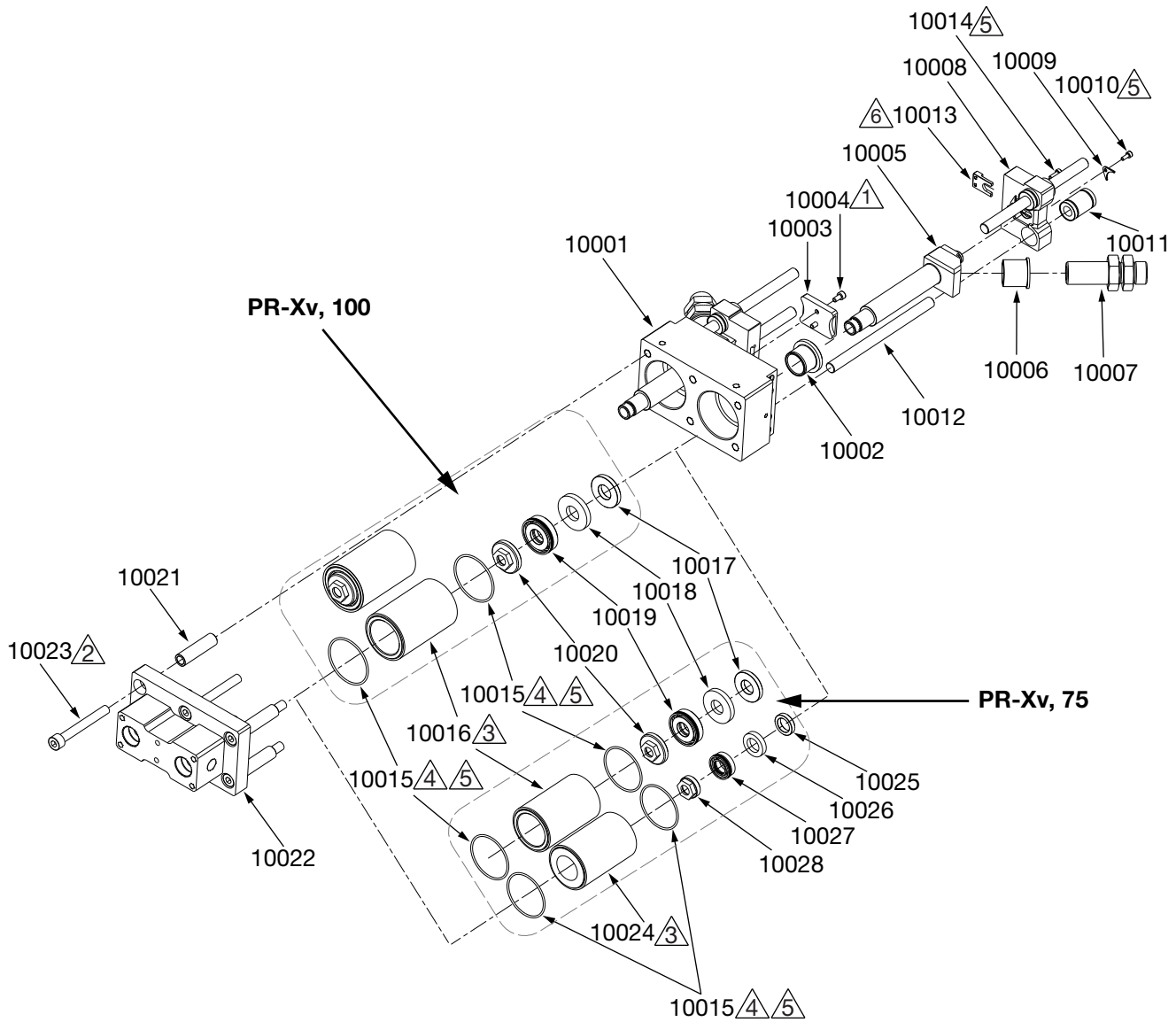
## Base Parts List

Ref.	Part	Description	Qty.							
			25S181	25S182	25S197	25S198	2002594	2002595	2002596	2002597
1001	25S185	MODULE, metering, 100, PR-Xv, SST; See <b>Metering Module</b> , page 20	1				1			
	25S186	MODULE, metering, 100, PR-Xv, CER; See <b>Metering Module</b> , page 20		1				1		
	25S201	MODULE, metering, 75, PR-Xv, SST; See <b>Metering Module</b> , page 20			1				1	
	25S202	MODULE, metering, 75, PR-Xv, CER; See <b>Metering Module</b> , page 20				1				1
1002	25S187	MODULE, power transmission, PR-Xv; See <b>Power Transmission Module</b> , page 24	1	1	1	1	1	1	1	1
1003	18E307	PLATE, side, base, pump, PR-Xv	2	2	2	2	2	2	2	2
1004	----	SCREW, shoulder, DIA 8, M6	12	12	12	12	12	12	12	12
1005	----	SCREW, DIA 8, M6	6	6	6	6	6	6	6	6
1006	18E308	PLATE, bottom, base, pump, PR-Xv	1	1	1	1	1	1	1	1
1007	18E309	SCREW, M6 x 1.0-10, socket head	2	2	2	2	2	2	2	2
1008	----	TRANSMITTER, pressure	2	2	2	2	2	2	2	2

# Metering Module

25S185, 25S186, 25S201, and 25S202

Series A



- △1 Torque to 0.37-0.74 ft-lb (0.5-1.0 N•m).
- △2 Torque to 5.16-6.64 ft-lb (7.0-9.0 N•m).
- △3 Metering tube direction should be appointing as shown.
- △4 Apply fluid, TSL 8 oz bottle.
- △5 Torque to 0-0.37 ft-lb (0-0.5 N•m).
- △6 Apply lubricant, synthetic, grease, 3 oz.

## Metering Module, Parts List, Series A

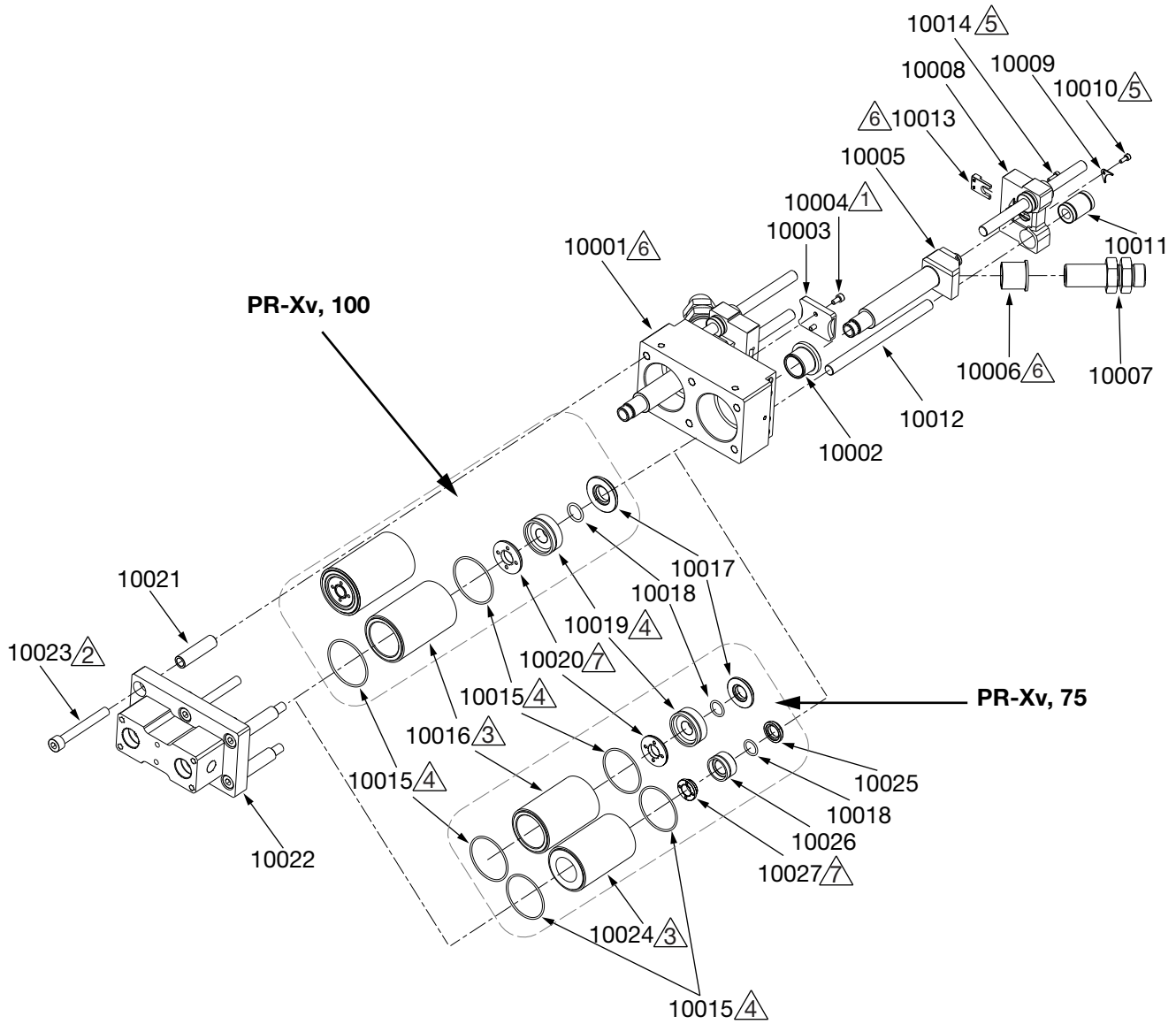
Ref.	Part	Description	Qty.			
			25S181	25S182	25S197	25S198
10001	18E286	BLOCK, tube, PR-Xv	1	1	1	1
10002	----	SLEEVE, guide	2	2	2	2
10003	18E287	PLATE, bearing limit, PR-Xv	1	1	1	1
10004	----	SCREW, M4 x 0.7-8, socket head, SST	2	2	2	2
10005*	18E288	ROD, piston, PR-Xv	2	2	2	2
10006	----	BUSHING	2	2	2	2
10007	----	FITTING, with nut	2	2	2	2
10008	18E289	BLOCK, push, PR-Xv	2	2	2	2
10009	----	BRACKET, bearing limit	4	4	4	4
10010	----	SCREW, M3 x 0.5-8, socket	4	4	4	4
10011	----	BEARING	4	4	4	4
10012	18E290	ROD, guide, PR-Xv	4	4	4	4
10013	----	HINGE	2	2	2	2
10014	----	SCREW, M3 x 0.5-16, hexagon socket	2	2	2	2
10015	18D689 <sup>(1)</sup>	O-RING	4	4	4	4
10016	18F879	CYLINDER, 50, SST, PR-Xv	2		1	
	18F880	CYLINDER, 50, CER, B, PR-Xv		2		1
10017	18E291	WASHER, support back, 50, PR-Xv	2	2	1	1
10018	18E292	PLATE, piston, 50, PR-Xv	2	2	1	1
10019	18E293	PISTON, 50, PR-Xv	2	2	1	1
10020	18E294	NUT, support front, 50, PR-Xv	2	2	1	1
10021	18E299	SLEEVE, bolt, M8, PR-Xv	4	4	4	4
10022	18E300	BLOCK, support, PR-Xv	1	1	1	1
10023	18E301	SCREW, M8 x 1.25-65, socket head	6	6	6	6
10024	18F881	CYLINDER, 25, SST, PR-Xv			1	
	18F882	CYLINDER, 25, CER, B, PR-Xv				1
10025	18E295	PLATE, support back, 25, PR-Xv			1	1
10026	18E296	PLATE, piston, 25, PR-Xv			1	1
10027	18E297	PISTON, 25, PR-Xv			1	1
10028	18E298	PLATE, support front, 25, PR-Xv			1	1

\* If replaced, order this part together with 25cc SST repair kit 2000910, 50cc SST repair kit 2000911, 25cc CER repair kit 2000912 or 50cc CER repair kit 2000913 accordingly.

(1) This part is not sold separately. Order O-ring kit 2000920 when ordering this part.

**NOTE:** Updating from series A to series B is available. For updating, order 25cc SST repair kit 2000910, 50cc SST repair kit 2000911, 25cc CER repair kit 2000912 or 50cc CER repair kit 2000913 of series B accordingly and part 18E288 as a group.

Series B



- ⚠️ Torque to 0.37-0.74 ft-lb (0.5-1.0 N•m).
- ⚠️ Torque to 5.16-6.64 ft-lb (7.0-9.0 N•m).
- ⚠️ Metering tube direction should be appointing as shown.
- ⚠️ Apply fluid, TSL 8 oz bottle.
- ⚠️ Torque to 0-0.37 ft-lb (0-0.5 N•m).
- ⚠️ Apply lubricant, synthetic, grease, 3 oz.
- ⚠️ Apply sealant, Anaerobic, blue. Torque to 7.38 ft-lb (10 N•m)

## Metering Module Parts List, Series B

Ref.	Part	Description	Qty.							
			25S181	25S182	25S197	25S198	2002594	2002595	2002596	2002597
10001	18E286	BLOCK, tube, PR-Xv	1	1	1	1	1	1	1	1
10002	----	SLEEVE, guide	2	2	2	2	2	2	2	2
10003	18E287	PLATE, bearing limit, PR-Xv	1	1	1	1	1	1	1	1
10004	----	SCREW, M4 x 0.7-8, socket head, SST	2	2	2	2	2	2	2	2
10005	18E288	ROD, piston, PR-Xv	2	2	2	2	2	2	2	2
10006	----	BUSHING	2	2	2	2	2	2	2	2
10007	----	FITTING, with nut	2	2	2	2	2	2	2	2
10008	18E289	BLOCK, push, PR-Xv	2	2	2	2	2	2	2	2
10009	----	BRACKET, bearing limit	4	4	4	4	4	4	4	4
10010	----	SCREW, M3 x 0.5-8, socket	4	4	4	4	4	4	4	4
10011	----	BEARING	4	4	4	4	4	4	4	4
10012	18E290	ROD, guide, PR-Xv	4	4	4	4	4	4	4	4
10013	----	HINGE	2	2	2	2	2	2	2	2
10014	----	SCREW, M3 x 0.5-16, hexagon socket	2	2	2	2	2	2	2	2
10015*◆★❁✓+	120874 <sup>(1)</sup>	O-RING	4	4	4	4	4	4	4	4
10016◆	18F879	CYLINDER, 50, SST, PR-Xv	2		1		2		1	
❁	18F880	CYLINDER, 50, CER, B, PR-Xv		2		1		2		1
10017◆❁+	2001160	PLATE, support back, 50	2	2	1	1	2	2	1	1
10018*◆★❁✓+	18D934 <sup>(1)</sup>	O-RING, piston	2	2	2	2	2	2	2	2
10019◆❁+	----	PISTON, 960	2	2	1	1	2	2	1	1
10020◆❁+	2001163	PLATE, support front, 50	2	2	1	1	2	2	1	1
10021	18E299	SLEEVE, bolt, M8, PR-Xv	4	4	4	4	4	4	4	4
10022	18E300	BLOCK, support, PR-Xv	1	1	1	1	1	1	1	1
10023	18E301	SCREW, M8 x 1.25-65, socket head	6	6	6	6	6	6	6	6
10024*	18F881	CYLINDER, 25, SST, PR-Xv			1				1	
★	18F882	CYLINDER, 25, CER, B, PR-Xv				1				1
10025*★✓	2001161	PLATE, support back, 25			1	1			1	1
10026*★✓	2001162	PISTON, 25			1	1			1	1
10027*★✓	2001164	PLATE, support front, 25			1	1			1	1

\* Parts included in 25cc SST repair kit 2000910.

◆ Parts included in 50cc SST repair kit 2000911.

★ Parts included in 25cc CER repair kit 2000912.

❁ Parts included in 50cc CER repair kit 2000913.

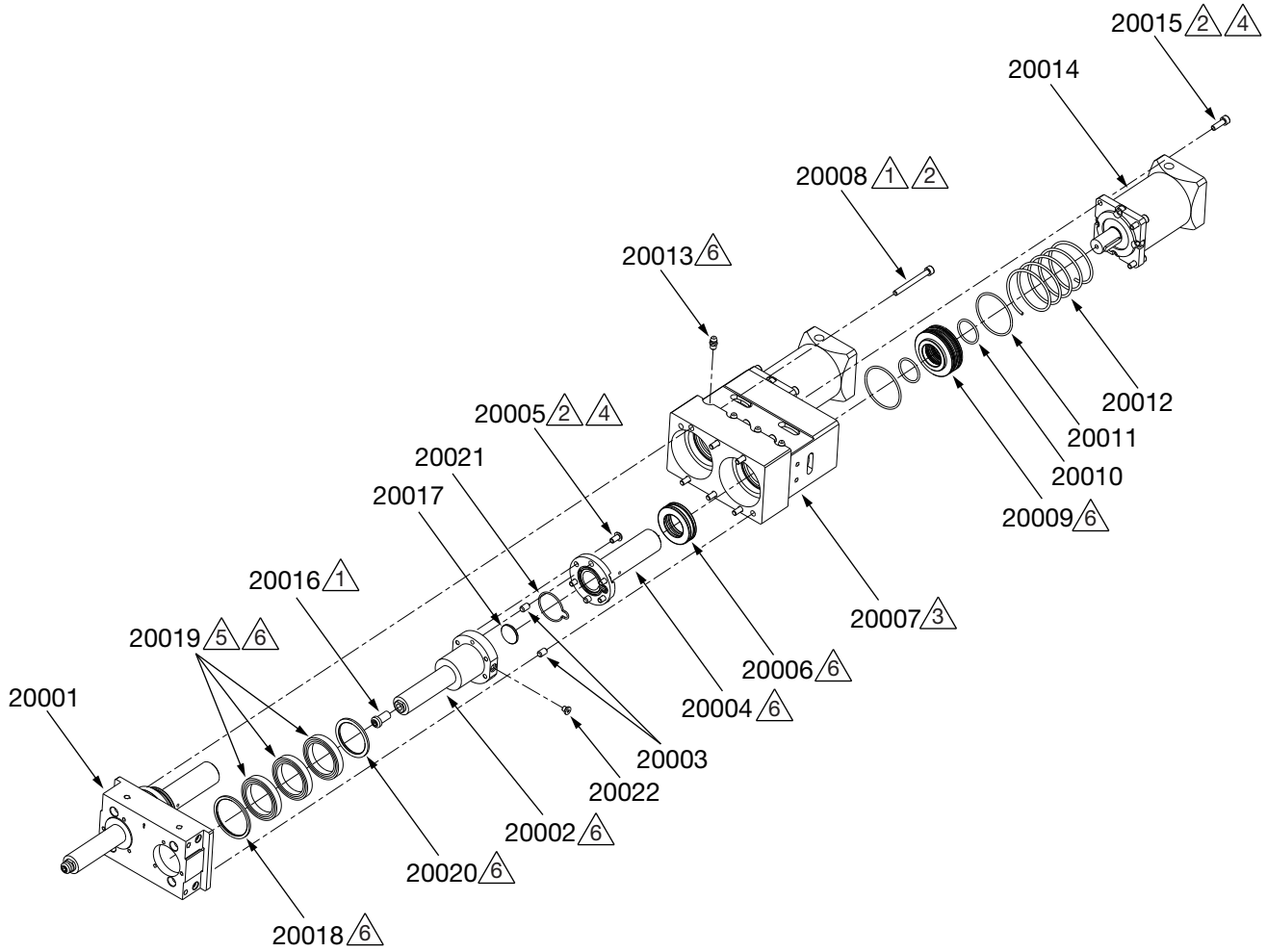
✓ Parts included in 25cc repair kit 2009017.

+ Parts included in 50cc repair kit 2009018.

(1) This part is not sold separately. Order O-ring kit 2000920 when ordering this part.

# Power Transmission Module

25S187



- 1** Torque to 1.7-2.2 ft-lb (2.3-3.0 N•m).
- 2** Apply sealant, Anaerobic, blue.
- 3** Installation direction as show.
- 4** Torque to 1.25-1.7 ft-lb (1.7-2.3 N•m).
- 5** Open direction face to motor side.
- 6** Apply lubricant, synthetic, grease, 3 oz.



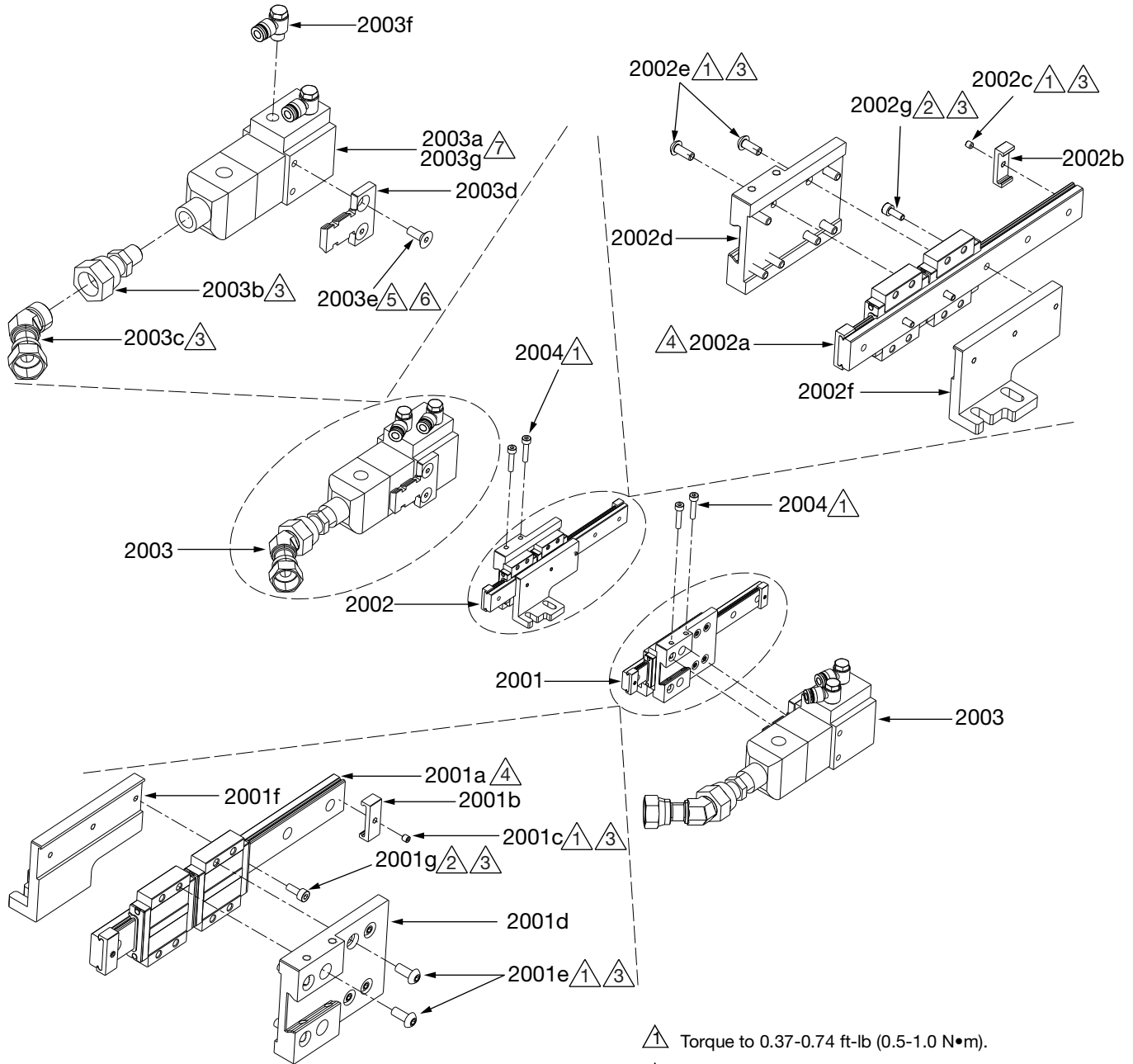
## Power Transmission Module Parts List

Ref.	Part	Description	Qty.							
			25S181	25S182	25S197	25S198	2002594	2002595	2002596	2002597
20001	18E302	BLOCK, sleeve, PR-Xv	1	1	1	1	1	1	1	1
20002	2002455	KIT, ball screw, nut, PR-Xv	2	2	2	2	2	2	2	2
20003	----	PIN, dowel, DIA 6-10	6	6	6	6	6	6	6	6
20004	18E303	ADAPTER, axle sleeve, PR-Xv	2	2	2	2	2	2	2	2
20005	----	SCREW, hexagon socket flat round head, M5 x 10	8	8	8	8	8	8	8	8
20006	----	BEARING, single thrust	2	2	2	2	2	2	2	2
20007	18E304	HOUSING, reduction box, PR-Xv	1	1	1	1	1	1	1	1
20008	----	SCREW, M5 x 0.8-50, socket head	6	6	6	6	6	6	6	6
20009	18E305	GUIDE, ring, PR-Xv	2	2	2	2	2	2	2	2
20010	18D763 <sup>(1)</sup>	O-RING	4	4	4	4	4	4	4	4
20011	120874 <sup>(1)</sup>	O-RING	4	4	4	4	4	4	4	4
20012	----	SPRING	2	2	2	2	2	2	2	2
20013	----	FITTING, grease	4	4	4	4	4	4	4	4
20014	----	BOX, reduction, ratio 20	2	2	2	2	2	2	2	2
20015	----	SCREW, M5 x 0.8-16, socket head, SST	8	8	8	8	8	8	8	8
20016	----	SCREW, M8 x 1.25-16, button head	2	2	2	2	2	2	2	2
20017	2000785 <sup>(1)</sup>	GASKET, axle sleeve, PR-Xv	2	2	2	2	2	2	2	2
20018	----	RING, axle bumper, outer	2	2	2	2	2	2	2	2
20019	----	BEARING, 7807C, angular contact ball	6	6	6	6	6	6	6	6
20020	----	RING, axle bumper, inner	2	2	2	2	2	2	2	2
20021	2002403 <sup>(1)</sup>	O-RING, 33.6 x 1.5	2	2	2	2	2	2	2	2
20022	2002406	SCREW, M5 x 0.8-6.0, flat head, with O-ring	2	2	2	2	2	2	2	2

*(1) This part is not sold separately. Order O-ring kit 2000920 when ordering this part.*

# Supply Pump Module

25S188 and 25S203

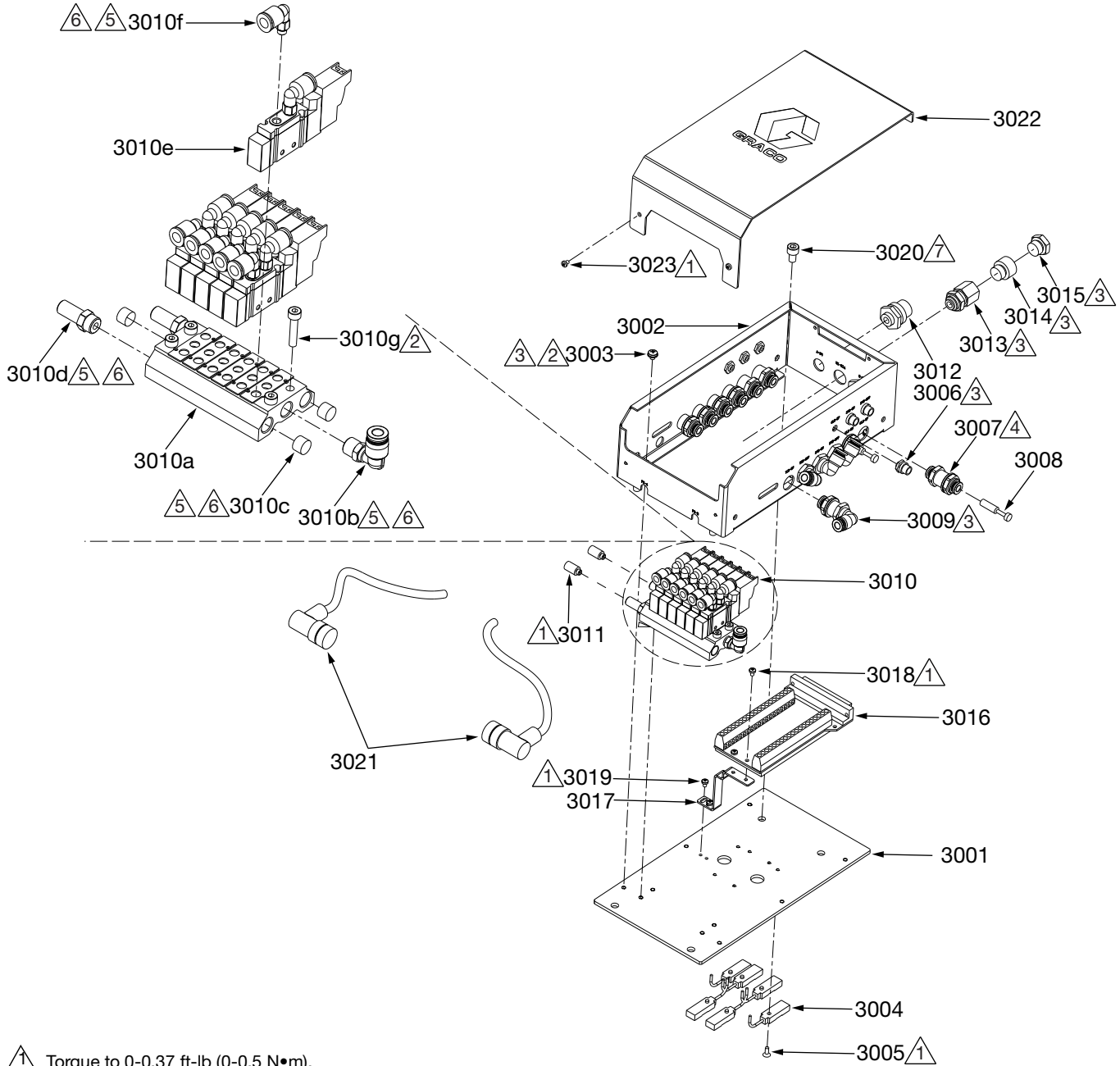


## Supply Pump Module Parts List

Ref.	Part	Description	Qty.							
			25S181	25S182	25S197	25S198	2002594	2002595	2002596	2002597
2001	25S189	MODULE, slide track, PR-Xv, A side	1	1	1	1	1	1	1	1
2001a	----	GUIDE, rail, sliders	1	1	1	1	1	1	1	1
2001b	----	BLOCK, stop, done stop	2	2	2	2	2	2	2	2
2001c	----	SCREW, set, M3 x 0.5-3, flat	2	2	2	2	2	2	2	2
2001d	18E310	PLATE, mounting, base, PR-Xv	1	1	1	1	1	1	1	1
2001e	----	SCREW, M4 x 0.7-10, button head, SST	8	8	8	8	8	8	8	8
2001f	18E311	PLATE, mounting, valve, PR-Xv	1	1	1	1	1	1	1	1
2001g	----	SCREW, M3 x 0.5-8, socket	3	3	3	3	3	3	3	3
2002	25S190	MODULE, slide track, PR-Xv, B side	1	1	1	1	1	1	1	1
2002a	----	GUIDE, rail, sliders	1	1	1	1	1	1	1	1
2002b	----	BLOCK, stop, done stop	2	2	2	2	2	2	2	2
2002c	----	SCREW, set, M3 x 0.5-3, flat	2	2	2	2	2	2	2	2
2002d	18E310	PLATE, mounting, base, PR-Xv	1	1	1	1	1	1	1	1
2002e	----	SCREW, M4 x 0.7-10, button head, SST	8	8	8	8	8	8	8	8
2002f	18E312	PLATE, mounting, valve, PR-Xv	1	1	1	1	1	1	1	1
2002g	----	SCREW, M3 x 0.5-8, socket	3	3	3	3	3	3	3	3
2003	25S191	MODULE, 1K valve, PR-Xv, SST	2		2		2		2	
	25S204	MODULE, 1K valve, PR-Xv, HW		2		2		2		2
2003a	----	VALVE, 1K	1	1	1	1	1	1	1	1
2003b	----	FITTING, UN13/16-16, NPT1/4	1	1	1	1	1	1	1	1
2003c	----	FITTING, UN13/16-16, male, female	1	1	1	1	1	1	1	1
2003d	18E313	PLATE, mounting, valve, PR-Xv	1	1	1	1	1	1	1	1
2003e	----	SCREW, M6 x 1.0-16, flat head	2	2	2	2	2	2	2	2
2003f	----	FITTING, DIA 6, PT1/8, PV	2	2	2	2	2	2	2	2
2003g	----	VALVE, elite 1K		1		1		1		1
2004	----	SCREW, M4 x 0.7-20, socket	4	4	4	4	4	4	4	4

# Junction Box

## 25S192



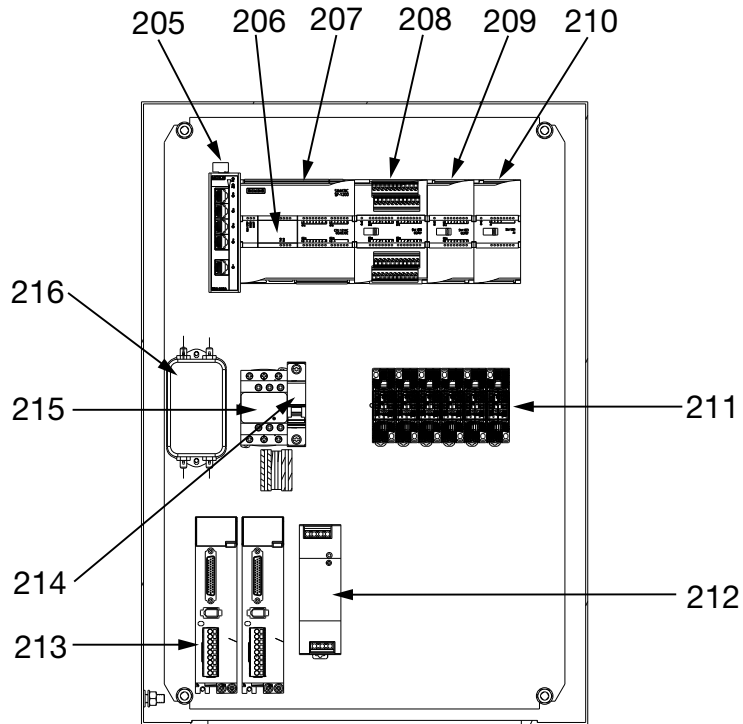
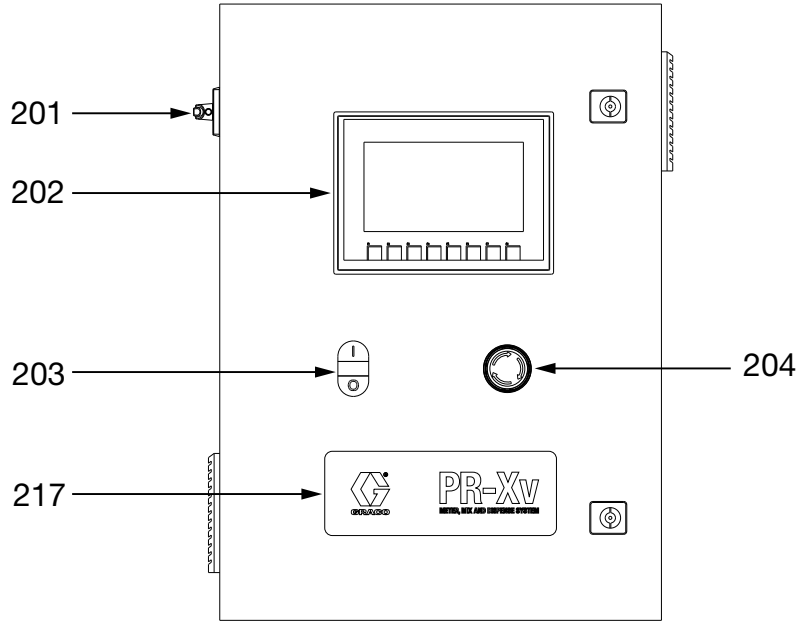
- ① Torque to 0-0.37 ft-lb (0-0.5 N•m).
- ② Torque to 0.37-0.74 ft-lb (0.5-1.0 N•m).
- ③ Apply sealant, Anaerobic, blue.
- ④ Rubber gasket should be assembled on the outer surface.
- ⑤ Torque to 1.70-2.58 ft-lb (2.3-3.5 N•m).
- ⑥ Apply sealant, pipe, SST.
- ⑦ Torque to 2.21-2.95 ft-lb (3.0-4.0 N•m).

## Junction Box Parts List

Ref.	Part	Description	Qty.							
			25S181	25S182	25S197	25S198	2002594	2002595	2002596	2002597
3001	----	PLATE, junction box, PR-Xv	1	1	1	1	1	1	1	1
3002	----	FRAME, control, PR-Xv	1	1	1	1	1	1	1	1
3003	----	SCREW, M4 x 0.7-5, Phillips, with washer	6	6	6	6	6	6	6	6
3004	----	SENSOR, position	6	6	6	6	6	6	6	6
3005	----	SCREW, M3 x 0.5-8, flat head, SST	6	6	6	6	6	6	6	6
3006	----	FITTING, PIN 3, M6	6	6	6	6	6	6	6	6
3007	----	FITTING, DIA 6, M14 x 1	4	4	4	4	4	4	4	4
3008	----	PLUG, DIA 6	4	4	4	4	4	4	4	4
3009	----	FITTING, DIA 6, M14, PLM6	8	8	8	8	8	8	8	8
3010	----	MODULE, solenoid valve, PR-Xv	1	1	1	1	1	1	1	1
3010a	----	BASE, manifold, PR-Xv	1	1	1	1	1	1	1	1
3010b	----	FITTING, DIA 6, PT1/8	1	1	1	1	1	1	1	1
3010c	----	PLUG, socket, PT1/8	3	3	3	3	3	3	3	3
3010d	----	FITTING, M5, RC1/8	2	2	2	2	2	2	2	2
3010e	----	VALVE, solenoid	6	6	6	6	6	6	6	6
3010f	----	FITTING, DIA 6, M5 x 0.8	12	12	12	12	12	12	12	12
3010g	----	SCREW, M4 x 0.7-20, socket	4	4	4	4	4	4	4	4
3011	----	MUFFLER, M5	2	2	2	2	2	2	2	2
3012	----	FITTING, PIN 4, M12	2	2	2	2	2	2	2	2
3013	----	FITTING, DIA 6, NPT1/4	1	1	1	1	1	1	1	1
3014	----	FITTING, DIA 6, NPT1/4 male	1	1	1	1	1	1	1	1
3015	----	FITTING, DIA 1/4 IN, NPT1/4 male	1	1	1	1	1	1	1	1
3016	----	TERMINAL, Integrated, connector	1	1	1	1	1	1	1	1
3017	----	BRACKET, support	1	1	1	1	1	1	1	1
3018	----	SCREW, M3 x 0.5-8, pan, Philips	2	2	2	2	2	2	2	2
3019	----	SCREW, M3 x 0.5-4, Phillips	2	2	2	2	2	2	2	2
3020	----	SCREW, M6 x 1.0-10, socket head	2	2	2	2	2	2	2	2
3021	----	FITTING, transmitter, pressure	2	2	2	2	2	2	2	2
3022	----	COVER, control, PR-Xv	1	1	1	1	1	1	1	1
3023	----	SCREW, M3 x 0.5-4, pan head, SST	4	4	4	4	4	4	4	4

# Control Unit

2002077 and 2002500

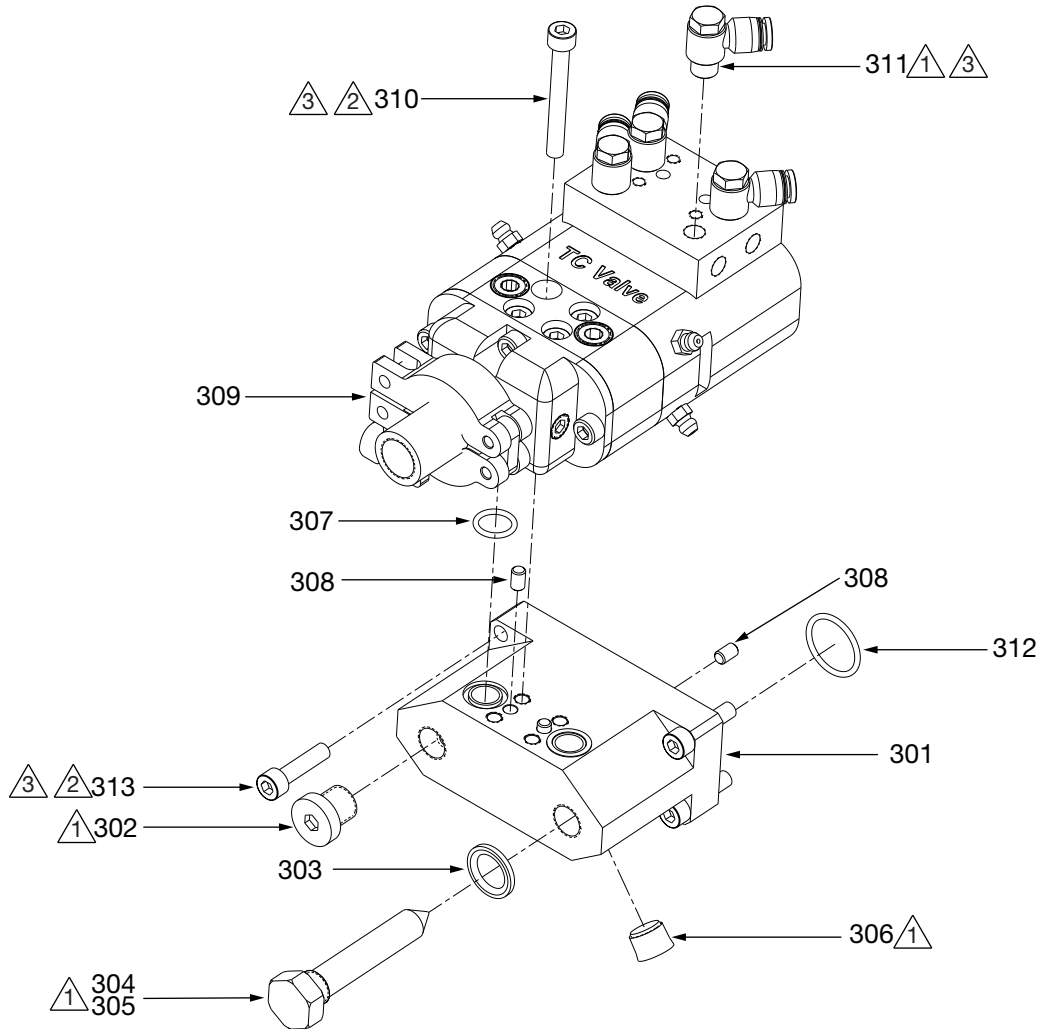


## Control Unit Parts List

Ref.	Part	Description	Qty.							
			25S181	25S182	25S197	25S198	2002594	2002595	2002596	2002597
201	2000179	KNOB, operator, disconnect	1	1	1	1	1	1	1	1
202	CU0384	DISPLAY, touch screen	1	1	1	1	1	1	1	1
203	2000176	STARTER, operator	1	1	1	1	1	1	1	1
204	2000178	STOP, emergency	1	1	1	1	1	1	1	1
205	CU0512	ETHERNET SWITCH	1	1	1	1	1	1	1	1
206	CU0391	MODULE, SIMATIC S7-1200, CB 1241	1	1	1	1	1	1	1	1
207	CU0411	SIMATIC S7-1200, CPU 1214C	1	1	1	1	1	1	1	1
208	CU0412	SM 1223, digital I/O, 16DI	1	1	1	1	1	1	1	1
209	CU0413	SM 1223, digital I/O, 8DI	1	1	1	1	1	1	1	1
210	CU0414	MODULE, SM 1231, analog input, 4AI	1	1	1	1	1	1	1	1
211	2000180	RELAY, socket, plug-in	6	6	6	6	6	6	6	6
212	CU0016	POWER SUPPLY, 150W, 24VDC, MW	1	1	1	1	1	1	1	1
213	2000343	DRIVER, servo, INOVANCE	2	2	2	2				
	2002457	DRIVER, servo, SIEMENS					2	2	2	2
214	CU0393	CIRCUIT BREAKER, 1P, 10A	1	1	1	1	1	1	1	1
215	CU0392	CONTACTOR 3P, 1NC+1NO	1	1	1	1	1	1	1	1
216	CU0429	FILTER, power supply	1	1	1	1	1	1	1	1
217	2000341	BRAND, label	1	1	1	1	1	1	1	1

# Dispense Valve Module

25S194, 25S205, 25S206, and 25S207



- △1 Apply sealant, Anaerobic, blue.
- △2 Torque to 2.95-3.69 ft-lb (4.0-5.0 N•m).
- △3 Apply sealant, pipe, SST.



## Dispense Valve Parts List

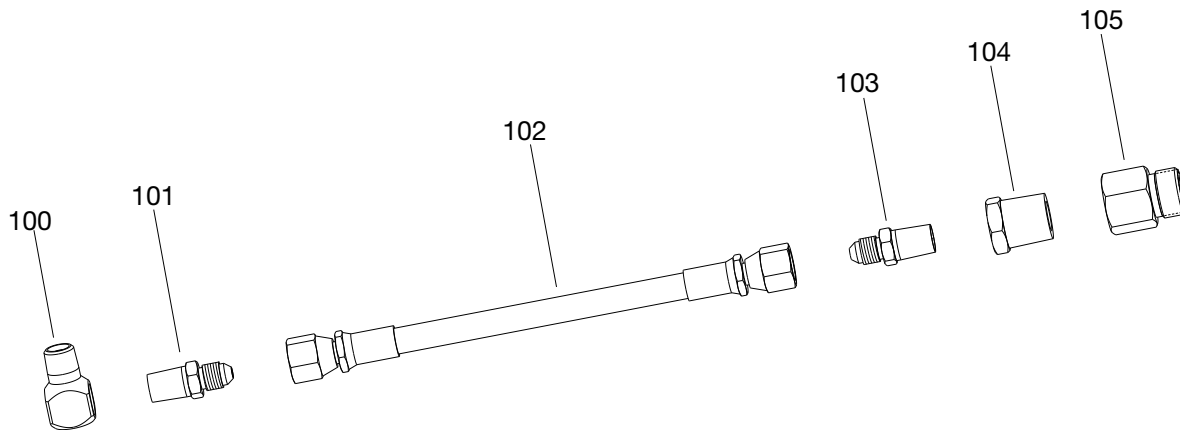
Ref.	Part	Description	Qty.							
			25S181	25S182	25S197	25S198	2002594	2002595	2002596	2002597
301	18E319	ADAPTER, channel, PR-Xv	1	1	1	1	1	1	1	1
302	----	PLUG, blind flange, G 1/4	2	2	2	2	2	2	2	2
303	18E320 <sup>(1)</sup>	SEAL, bonded washer, PR-Xv	2	2	2	2	2	2	2	2
304	18E321	PLUG, variable diameter, D11.2	1	1	1	1	1	1	1	1
305	18E322	PLUG, variable diameter, D8.5	1	1	1	1	1	1	1	1
306	----	PLUG, 1/4 NPT	2	2	2	2	2	2	2	2
307	18E331 <sup>(1)</sup>	O-RING, 11.2 x 1.8	2	2	2	2	2	2	2	2
308	18E324	PIN, dowel, DIA 5-8	4	4	4	4	4	4	4	4
309*	----	VALVE, TC, 1:1 standard	1				1			
	----	VALVE, TC, 1:1 high wear		1				1		
	----	VALVE, TC, 10:1 standard			1				1	
	----	VALVE, TC, 10:1 high wear				1				1
310	18F963	SCREW, M6 x 1-45, socket	4	4	4	4	4	4	4	4
311	----	FITTING, DIA 6, PT1/8, PV	4	4	4	4	4	4	4	4
312	18D751 <sup>(1)</sup>	O-RING	2	2	2	2	2	2	2	2
313	18E326	SCREW, M6 x 1.0-25, socket	4	4	4	4	4	4	4	4

(1) This part is not sold separately. Order O-ring kit 2000920 when ordering this part.

\* For more details of TC valve, please refer to TC Dispense Valve Manual (3A9328).

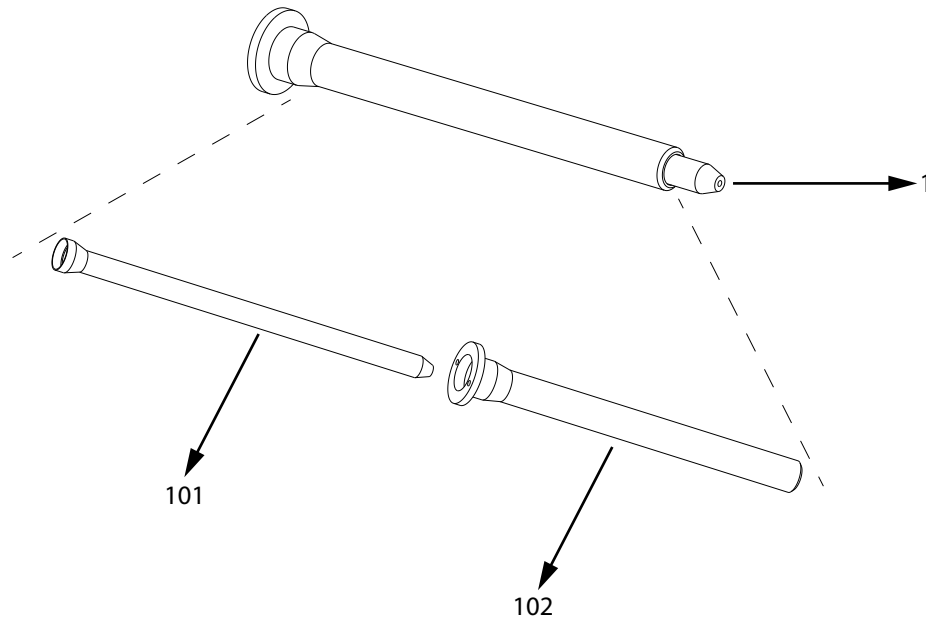
# Kits and Accessories

## Remote Kits



Kits	Description	100	101	102	103	104	105
2000414	KIT, hose, ASSY, ORFS fitting	----	----	----	----	----	----
2000860	KIT, hose, ASSY, JIC fitting, PR-Xv, 3/32 x 60	166866	124961	16W047	124961	102022	18D958
2000861	KIT, hose, ASSY, JIC fitting, PR-Xv, 1/8 x 60			16V531			
2000862	KIT, hose, ASSY, JIC fitting, PR-Xv, 3/16 x 36	166866 +10030	94/1000 /98	16C502	94/1000 /98	100329	
2000863	KIT, hose, ASSY, JIC fitting, PR-Xv, 3/16 x 48			16C503			
2000865	KIT, hose, ASSY, JIC fitting, PR-Xv, 3/16 x 72			16C504			
2000866	KIT, hose, ASSY, JIC fitting, PR-Xv, 1/4 x 36	166866	124961	16C511	124961	102022	
2000867	KIT, hose, ASSY, JIC fitting, PR-Xv, 1/4 x 48			16C512			
2000868	KIT, hose, ASSY, JIC fitting, PR-Xv, 1/4 x 60			24G990			
2000869	KIT, hose, ASSY, JIC fitting, PR-Xv, 1/4 x 72			16C513			
2000870	KIT, hose, ASSY, JIC fitting, PR-Xv, 3/8 x 36	166866	116704	16C520	112100	504285	
2000871	KIT, hose, ASSY, JIC fitting, PR-Xv, 3/8 x 48			16C521			
2000872	KIT, hose, ASSY, JIC fitting, PR-Xv, 3/8 x 60			24F994			
2000873	KIT, hose, ASSY, JIC fitting, PR-Xv, 3/8 x 72			16C522			
2000874	KIT, hose, ASSY, JIC fitting, PR-Xv, 1/2 x 36	166866	116703	16C530	C20700	----	
2000875	KIT, hose, ASSY, JIC fitting, PR-Xv, 1/2 x 48			16C531			
2000876	KIT, hose, ASSY, JIC fitting, PR-Xv, 1/2 x 60			24G996			
2000877	KIT, hose, ASSY, JIC fitting, PR-Xv, 1/2 x 72			16C532			

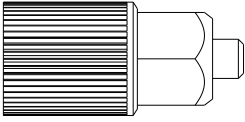
## Static Mixer Package



Ref.	Part	Description	Qty.
1	2000329	KIT, mixer, 8-24, Shroud, 50/1	1
	2000330	KIT, mixer, shroud, 8-24, 100/1	1
101	2000546	MIXER, 05-24T	1*
	2000547	MIXER, 06-24T	1*
	2000548	MIXER, 10-24T	1*
	2000549	MIXER, 10-18T	1*
	2000550	MIXER, 13-24T	1*
	2000137	MIXER, 08-24T	1*
	2001498	MIXER, 05-32T	1*
	2001499	MIXER, 13-32T	1*
102	2000551	SHROUD, clamp, mixer, MS 05-24T	1
	2000552	SHROUD, clamp, mixer, MS 06-24T	1
	2000553	SHROUD, clamp, mixer, MS 10-24T	1
	2000554	SHROUD, clamp, mixer, MS 10-18T	1
	2000555	SHROUD, clamp, mixer, MS 13-24T	1
	2000328	SHROUD, clamp, mixer, MS 08-24T	1

\* **NOTES:** A minimum order quantity of 50 pieces is needed.

## Adapter



Part	Description
2001564	ADAPTER, luer, LA05-06
2001565	ADAPTER, luer, LA06-08
2001566	ADAPTER, luer, LA10

## O-ring Kits

Part	Description
2000920	KIT, PR-Xv, O-ring

## Repair Kits

Part	Description
2000910	KIT, PR-Xv, repair, SST, 25 cc
2000911	KIT, PR-Xv, repair, SST, 50 cc
2000912	KIT, PR-Xv, repair, CER, 25 cc
2000913	KIT, PR-Xv, repair, CER, 50 cc
2009017	KIT, PR-Xv, repair, 25 cc
2009018	KIT, PR-Xv, repair, 50 cc

## SD Card

Part	Description
2000359	KIT, PR-Xv, Profinet, card

## Cables

Part	Description	Qty.
2000272	CABLE, pressure sensor-A, 10m	1
2000273	CABLE, pressure sensor-B, 10m	1
2000274	CABLE, servo encoder-A, 10m	1
2000275	CABLE, servo encoder-B, 10m	1
2000276	CABLE, junction box-PR-Xv, 10m	1
2000277	CABLE, servo motor-A, 10m	1
2000278	CABLE, servo motor-B, 10m	1
2001820	CABLE, pressure sensor-A, 15m	1
2001821	CABLE, pressure sensor-B, 15m	1
2001822	CABLE, servo encoder-A, 15m	1
2001823	CABLE, servo encoder-B, 15m	1
2001824	CABLE, junction box, 15m	1
2001825	CABLE, servo motor-A, 15m	1
2001826	CABLE, servo motor-B, 15m	1
2001827	CABLE, pressure sensor-A, 20m	1
2001828	CABLE, pressure sensor-B, 20m	1
2001829	CABLE, servo encoder-A, 20m	1
2001830	CABLE, servo encoder-B, 20m	1
2001831	CABLE, junction box, 20m	1
2001832	CABLE, servo motor-A, 20m	1
2001833	CABLE, servo motor-B, 20m	1
2002914	CABLE, servo encoder-A, 10m, CE	1
2002915	CABLE, servo encoder-B, 10m, CE	1
2002897	CABLE, servo motor-A, 10m, CE	1
2002898	CABLE, servo motor-B, 10m, CE	1

# Technical Specifications

<b>PR-Xv System</b>		
	<b>US</b>	<b>Metric</b>
Maximum Inlet Fluid Pressure	1200 psi	8.3 MPa, 83 bar
Maximum Working Fluid Pressure	1200 psi	8.3 MPa, 83 bar
Maximum Air Pressure	100 psi	0.7 MPa, 7 bar
Minimum Air Flow	1 CFM	
Electrical Power	200–240 VAC, 50/60 Hz, 10 A	
Viscosity Range	20–1,000,000 cps	
Wetted Parts	303/304 Stainless Steel, Hard Chrome, Ceramic, UHMWPE, NBR, Carbon Steel, PTFE	
Shot Size Range	PR-Xv 100 cc: 0.1–100 cc PR-Xv 75 cc: 0.1–75 cc	
Shot Size Repeatability	1%	
Flowrate	0.01–10 cc/s (Depends on material viscosity)	
Material Ratio	PR-Xv 100 cc: 1:1 to 5:1 PR-Xv 75 cc: 2:1 to 10:1	
<b>Inlet / Outlet Sizes</b>		
Air Inlet size	1/4 in.	6 mm
Fluid Inlet size	1/4 in. npt (f)	
Fluid Outlet size	7/8-9 bell outlet	
<b>Weight</b>		
PR-Xv Metering Unit	56.8 lb	26 kg
Control Unit	71 lb	32 kg
<b>Maximum Working Temperature</b>		
Maximum Working Temperature	158°F	70°C
<b>Notes</b>		
All trademarks or registered trademarks are the property of their respective owners.		

## California Proposition 65

### CALIFORNIA RESIDENTS

 **WARNING:** Cancer and reproductive harm – [www.P65warnings.ca.gov](http://www.P65warnings.ca.gov).

# Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

**THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.**

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

**GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO.** These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco, or otherwise.

## **FOR GRACO CANADA CUSTOMERS**

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# Graco Information

## Sealant and Adhesive Dispensing Equipment

For the latest information about Graco products, visit [www.graco.com](http://www.graco.com).

For patent information, see [www.graco.com/patents](http://www.graco.com/patents).

**TO PLACE AN ORDER**, contact your Graco distributor, go to [www.graco.com](http://www.graco.com), or call to identify the nearest distributor.

**If calling from the USA:** 1-800-746-1334

**If calling from Asia Pacific:** 00-86-512-6260-5711 or 00-86-21-2310-6198

**If calling from Europe:** 00-32-89-770-862

*All written and visual data contained in this document reflects the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.*

Original instructions. This manual contains English. MM 3A9349

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